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The Protein Data Bank and the challenge of structural genomics

Heten M. Berman, T. N. Bi Weissig, John Westbrook SUMMARY: The PDB h Tas created systems for the processing, exchange, query, afthat will enable many aspects of high throughput į, Philip E. Bourne, Zukang Feng, Gary Gilliland, Helge

archive for all biomacr Structural genomics...
CONTEXT: ...of struct ures on a genomic scale in a high-throughput mode will in a part of the Protein Data Bank (PDB) -- the single omplecular structural data. Although estimates vary, the

Nature Structural Biology7, 95 Nature Structural Biok , 957 - 959 (01 Nov 2000) **DOI:**

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Structural proteomics of an archaeon

Dinesh Christendat, Adelinda Yee, Akil Dharamsi, Yuval Kluger, Alexei Savchenko, John R. Cort, Valene Booth, Camejon D. Mackereth, Ivvian Sandakis, Irena Elkei, Guernadi Kozlov, Karen L. Maxwell, Ning Vigi, Jawence P. McIndosh, Kalle Gehingn, Michael A. Kennedy, Alan R. Davidson, Emil E (Pai, Mark Gerstein, Aled M. Edwards, Cheryl H. Arrowsmith Summarx: A set of 433 nommembrane proteins from Methanobacterium thermoautorophicum were cloned, expressed and purified for structural studies. Of these, ~ 20% were found to be...

CONTEXT: The completion and near completion of the sequencing phase of genome projects has using the district of the sequencing phase of genome projects has using the district of the sequencing phase of genome projects has using the district of the sequencing phase of genome projects has using the district of the sequencing phase of genome projects has using the district of the sequencing phase of genome projects has using the district of the sequencing phase of genome projects has using the district of the sequencing phase of genome projects has using the district of the sequencing phase of genome projects has using the district of the sequencing phase of genome projects has using the district of the sequencing phase of genome projects has using the district of the sequencing phase of genome projects has using the district of the sequencing phase of genome projects has using the district of the sequencing phase of genome projects has using the district of the sequencing phase of genome projects has using the district of the sequence information coupled with recent

advances in.....

Nature Structural Biology**7**, 903 - 909 (01 Oct 2000) **DOI: 10.1038/82823**Articl<u>e</u>

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From structure to function: Approaches and limitations

Janet M. Thomion, Annaballe. Todd, Duncan Milburn, Neera Borkakoli, Christine A. Orengo

SUMMARY: This review/presents a summary of current approaches to extract

functional information.

functional information from structural data on proteins and their complexes. While structural homologs may...
While structural homologs from the gene context: The essence of structural genomics is to start from the gene sequence, produce the frotein and determine its three-dimensional structure. The challenge, once the structure is determined, is to extract useful biological nformation about....

Nature Structural Biolo 10.1038/80784Progr 977, 991 - 994 (01 Nov 2000) **DOI:** Sess

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Structural genomics in the biotechnology sector

4

Sarah Dry, Sean McCarthy, Tim Harris

SUMMARY: Commercial efforts in structural genomics focus on providing to
pharmaceutical customers information that relates to the suitability of specific
proteins as drug targets and...

CONTEXT: Commercial structural genomics aims to capitalize upon, and
extend, the recent flood of genomic sequence and expression information,
translating it into a form that is directly applicable to target validation and to

structure-aided.....

Nature Structural Biology7, 946 - 949 (01 Nov 2000) **DOI:**10.1038/80718Perspectives

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Ņ An overview of structural genomics

Stephen K. Burley

SUMMARY: With access to sequences of entire human genomes plus those of

SUMMARY: With access to sequences of entire human genomes plus those of

various model organisms and many important microbial pathogens, structural

biology is on the...

CONTEXT: ...three-dimensional structural information with whole genome

sequences are well-documented by the enormous success of

investigator-initiated hypothesis-driven biomedical research using X-ray

crystallography and NMR spectroscopy. To......

Nature Structural Biology7, 932 - 934 (01 Nov 2000) **DOI:** 10.1038/80697Perspectives

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Arise, go forth, and solve structures

Description: In 1962 -- when Max Perutz and John Kendrew shared the Nobel prize for their......
CONTEXT: In 1962 -- when Max Perutz and John Kendrew shared the Nobel prize for their work on protein crystal structures -- who would have predicted that today there would be nearly 9,000 structures in a freely and easily accessible electronic.....

Nature Structural Biology5, 1019 - 1020 (01 Dec 1998) DOI: 10.1038/4127Editorial

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7. Structural genomics of RNA

lennifer A. Doudna

SUMMARY: A detailed understanding of the functions and interactions of biological macromolecules requires knowledge of their molecular structures. Structural genomics, the systematic determination of all... CONTEXT: ...have important or essential biological functions in cells, beyond the well-established roles of ribosomal, transfer and messenger RMAs in protein biosynthesis. A partial list of such molecules includes catalytic RNAs, small nuclear.....

Nature Structural Biology7, 954 - 956 (01 Nov 2000) DOI: 10.1038/80729Perspectives

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